AVOCENT® FIBER MEDIA CONVERTER

■ Quick Installation Guide

EMERSON
Network Power

The following instructions will help you install your Avocent® Fiber Media Converter. Should you require further assistance, please contact Avocent Technical Support.

The Avocent® Fiber Media Converter converts 1000BaseSX (multi-mode) or LX (single-mode) fiber to 1000BaseT copper. The Plug and Play Fiber Media Converter automatically selects between a crossover workstation and a straight-through connection, depending on the connected device for the twisted pair port.

The Fiber Media Converter can be installed in an IE-PowerTray or can be used as a standalone media converter with a universal external switching power cube.

❶ Installing the IE-PowerTray
Mount the PowerTray into your rack using the brackets on either side of the PowerTray.

❷ Installing a Fiber Media Converter into the PowerTray
Make sure the Fiber Media Converter's data connectors are facing the front of the PowerTray, then use the guides to slide it into the PowerTray until it is seated firmly in the backplane.

❸ Connecting devices
Plug one end of a CAT 5 network cable into the twisted pair port of the Fiber Media Converter, then plug the other end into a device. Plug the PowerTray into a power source and turn the power on. A green LED on the back of the PowerTray will illuminate when the power is turned on.

Fiber Media Converter

End view of fiber media converter
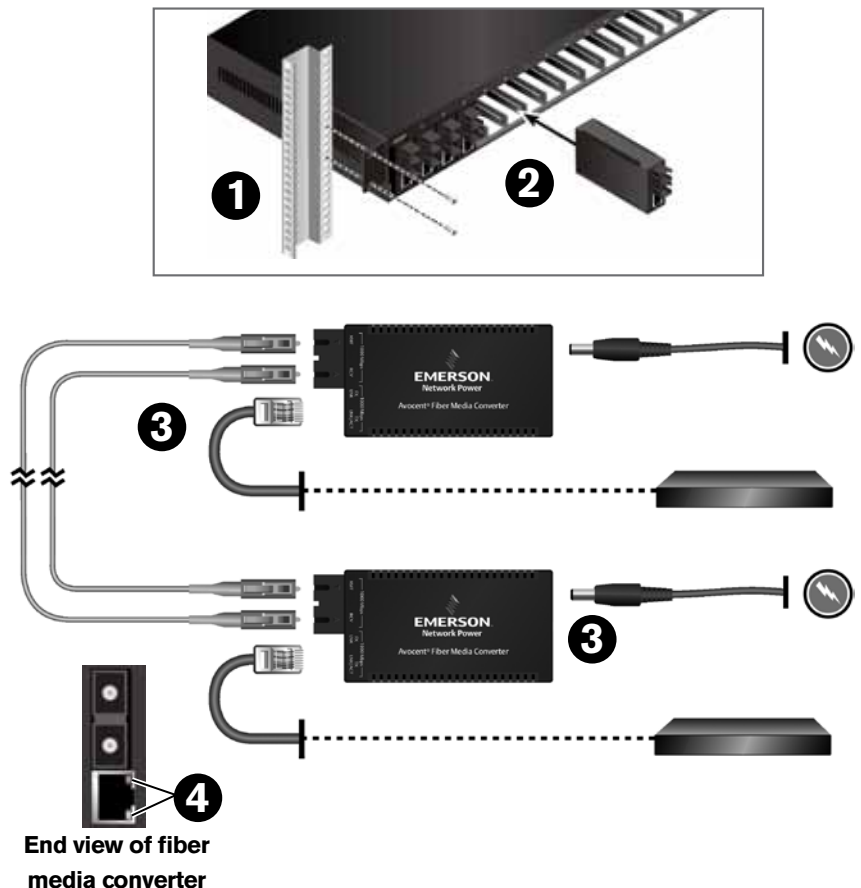
NOTE: *In a standalone configuration, the unit can be powered by either its power supply or with a USB cable connected to a computer or HMX user station. Both the power cord and USB cable are included with the unit.*

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❹ LED operation
The Fiber Media Converter has two LEDs. The FX LNK LED illuminates green when a link is established on the fiber port and blinks green when data is passing. The TX LNK/ACT LED illuminates amber when a link is established on the copper port. It blinks amber when activity is detected on the copper port.

For additional information
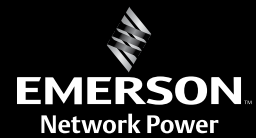Visit www.avocent.com for more information on your Fiber Media Converter.

Fiber optic cleaning guidelines

Fiber Optic transmitters and receivers are extremely susceptible to contamination by particles of dirt or dust, which can obstruct the optic path and cause performance degradation. For optimal system performance, ensure the following:

- Use fiber patch cords (or connectors, if you terminate your own fiber) only from a reputable supplier. Low-quality components can cause many problems in installation.

- Dust caps are installed to ensure factory-clean optical devices. These protective caps should be installed when the fiber media converter is disconnected.

- Store spare caps in a dust-free environment such as a sealed plastic bag so that when reinstalled they do not introduce any contamination to the optics.

- If the optics have been contaminated, use compressed air and methanol to clean them.

Electrostatic discharge precautions

Electrostatic discharge (ESD) can cause damage to any product containing electronic components. Always observe the following precautions when installing or handling:

- Do not remove the unit from its protective packaging until it is ready for installation.

- Wear an ESD grounding wrist strap before handling any module or component. If the wrist strap is not available, maintain grounded contact with the unit throughout any procedure requiring ESD protection.

- After removal, always place the boards on a grounded, static-free surface, ESP pad or in a proper ESD bag. Do not slide the modules or stand-alone units over any surface.

WARNING: *Integrated circuits and fiber optic components are extremely susceptible to electrostatic discharge damage. Do not handle these components directly unless you are a qualified service technicican and use tools and techniques that conform to accepted industry practices.*

FCC radio frequency interference statement

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his/her own expense.

The use of non-shielded I/O cables may not guarantee compliance with FCC RFI limits. This digital apparatus does not exceed the Class A limits for radio noise emission from digital apparatus set out in the Radio Interference Regulation of the Canadian Department of Communications.

Fiber Media Converter specifications

AC wall adaptor

100 to 240 ±10% V AC input, 5V DC output, 2A max.

Power consumption (typical):

600 mA @ 5V

Operating temperature:

32° to 122° F (0° to 50° C)

Storage temperature:

-4° to 158°F (-20° to 70° C)

Humidity:

5 to 90% (non-condensing); 0 to 10,000 ft. altitude

Dimensions:

0.83"H x 1.80"W x 3.35"D (2.1cm x 4.6cm x 8.5cm)

PowerTray specifications

Power consumption (typical)

AC Input Load

100 to 240 ±10% VAC, 50/60Hz, 1.5 to 0.75A

Operating temperature

-4°F to +158°F (-20°C to +70°C)

Storage temperature

-40°F to +185°F (-40°C to +85°C)

Humidity

5 to 95% (non-condensing); 0 to 10,000 ft. altitude

Dimensions

2.30"H x 16.97W x 9.25"D (5.80 x 43.10 x 23.5 cm)